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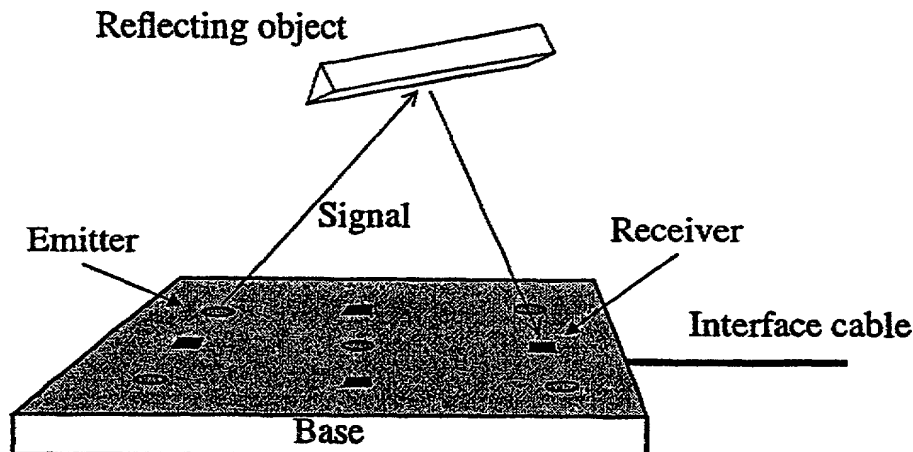
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- (71) Applicant (for all designated States except US): **BEAM-CONTROL APS [DK/DK]; Degnevænget 37, DK-9520 Skørping (DK).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **STOUSTRUP, Jakob [DK/DK]; Degnevænget 37, DK-9520 Skørping (DK). LA COUR-HARBO, Anders [DK/DK]; Hestebakken 9, DK-9240 Nibe (DK).**
- (74) Agent: **PLOUGMANN, VINGTOFT & PARTNERS A/S; Sankt Annæ Plads 11, P.O. Box 3007, DK-1021 Copenhagen K (DK).**
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(54) Title: **A METHOD FOR DETERMINING THE CHANNEL GAIN BETWEEN EMITTERS AND RECEIVERS**



(57) Abstract: A method for determining the channel gain between one or more emitter(s) and one or more receiver(s) by using a linear transform, such as a wavelet transform. Provides a fast and robust method for determining the channel gain, the signal being emitted with a very low power since received signals are easily resolved at the receiver. The method is employed in a three dimensional pointing device for a computer improving the possibility of moving the pointer in three dimensions. Information may be obtained about objects positioned in the signal path. May be employed for door openers or for determining the position of a remote control or for reducing "cross talk" in electrical components.

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